

Anti-Mannose Receptor(CD206) Antibody [PSH23-93]

HA724408



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, IF-Tissue, IP
Molecular Wt:	Predicted band size: 166 kDa
Clone number:	PSH23-93

Description: CD206, also known as macrophage mannose receptor type C (MMR or MRC1), is a type I membrane receptor protein. It is an phagocytic and endocytic receptor that can recognize carbohydrate ligands in target molecules. The extracellular portion of the protein includes eight C-type carbohydrate recognition domains (CRD) which are clustered together to achieve higher affinity binding to saccharides. CD206 is found on macrophages and on endothelial cells of the liver and is the only known example of a C-type lectin that contains multiple C-type CRDs. CD206 mediates the endocytosis of glycoproteins by macrophages and binds high-mannose structures on the surface of potentially pathogenic viruses, fungi and bacteria enabling them to be neutralized by phagocytic engulfment. During inflammation, CD206 is crucial for rapid clearance of several mannose-bearing serum glycoproteins but does not regulate the initiation of inflammation. CD206 is primarily expressed in mature tissue macrophages and immature dendritic cells, as well as hepatic and lymphatic endothelial cells, retinal pigmental epithelium (RPE) and mesangial cells.

Immunogen: Recombinant protein within human Mannose Receptor(CD206) aa 1-1,389.

Positive control: THP-1 treated with 20ng/ml PMA for 24 hours then treated with 20ng/ml IL-4 for 48 hours cell lysate.

Subcellular location: Endosome membrane, Cell membrane.

Database links: SwissProt: P22897 Human

Recommended Dilutions:

WB	1:5,000
IHC-P	1:1,000-1:3,000
IF-Tissue	1:1,000
IP	1-2µg/sample

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

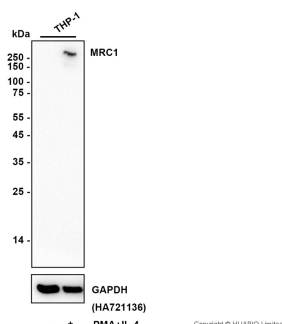


Fig1: Western blot analysis of Mannose Receptor(CD206) on different lysates with Rabbit anti-Mannose Receptor(CD206) antibody (HA724408) at 1/5,000 dilution.

Lane 1: THP-1 (Human acute monoclastic leukemia cells) cell lysate

Lane 2: THP-1 treated with 20ng/ml PMA for 24 hours then treated with 20ng/ml IL-4 for 48 hours cell lysate

Lysates/proteins at 15 µg/Lane.

Exposure time: 20 seconds; ECL: K1801

Blocking: 5% NFDm/TBST, 1 hour at room temperature

Primary antibody: HA724408, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDm/TBST, 1 hour at room temperature

Predicted band size: 166 kDa

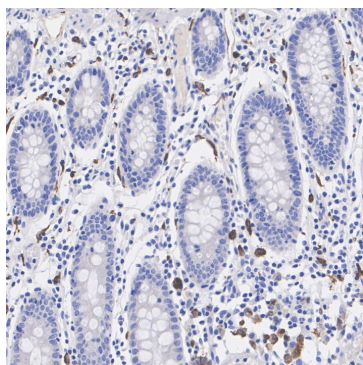
Observed band size: 250 kDa

Fig2: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Colon

Sample: Paraffin-embedded section



Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724408, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

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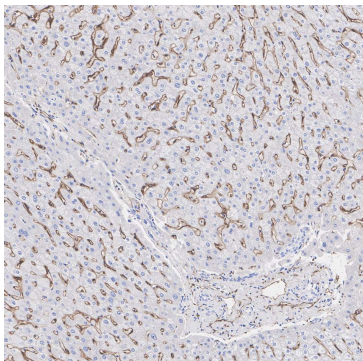


Fig3: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Liver

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724408, 1/3,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

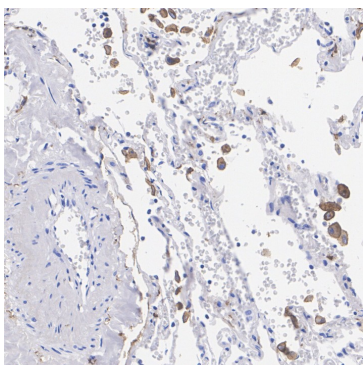


Fig4: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Lung

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724408, 1/3,000, 1 hour at room temperature.

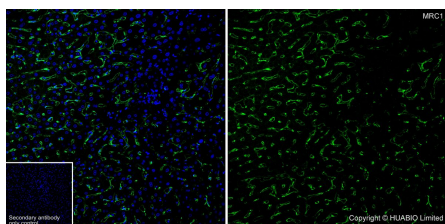
Secondary antibody: HA1119, 20 minutes at room temperature.

Fig5: Application: Immunofluorescence (IF-tissue)

Species: Human

Tissue: Liver

Sample: Paraffin-embedded section



Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

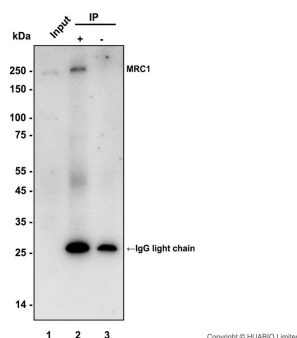
Blocking: 10% normal goat serum + 1% Triton X-100 + 0.3 M Glycine in TBST, 30 minutes at room temperature.

Primary antibody: HA724408, 1/1,000, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 1.5 hours at room temperature.

Fig6: Immunoprecipitation (IP)

Mannose Receptor(CD206) was immunoprecipitated in 0.2 mg THP-1 (Human acute monoclastic leukemia cell) treated with 20ng/mL TPA for 24 hours then treated with 20ng/mL IL-4 for 48 hours cell lysate with HA724408 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA724408 at 1/5,000 dilution. Anti-Rabbit IgG for IP, AlpSdAbs® VHH(HRP) (025-100-005) at 1/5,000 dilution was used for 1 hour at room temperature.



Lane 1: THP-1 treated with 20ng/mL TPA for 24 hours then treated with 20ng/mL IL-4 for 48 hours cell lysate

Lane 2: HA724408 IP in THP-1 treated with 20ng/mL TPA for 24 hours then treated with 20ng/mL IL-4 for 48 hours cell lysate

Lane 3: Rabbit IgG instead of HA724408 in THP-1 treated with 20ng/mL TPA for 24 hours then treated with 20ng/mL IL-4 for 48 hours cell lysate

Exposure time: 3 minutes

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary dilution: HA724408, 1/5,000 in primary antibody dilution buffer (K1803), 2 hours at room temperature

Predicted band size: 166 kDa

Observed band size: 250 kDa

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Ray A et al. Targeting CD206+ macrophages disrupts the establishment of a key antitumor immune axis. J Exp Med. 2025 Jan
2. Pommerolle L et al. CD206(+) macrophages are relevant non-invasive imaging biomarkers and therapeutic targets in experimental lung fibrosis. Thorax. 2024 Nov

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